

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Form PTO-1449 (Modified)  
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**COMPLETE IF KNOWN**

Application Number	09/882,293
Confirmation Number	7059
Filing Date	June 15, 2001
First Named Inventor	Kyle M. Hanson
Group Art Unit	1753
Examiner Name	Arun S. Phasge
Attorney Docket No.	29195-8159US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
Ad		09/679,928	/	Woodruff et al.	10/05/00	
		60/129,055	/	McHugh	04/13/99	
		60/143,769	/	McHugh	07/12/99	
		60/182,160	/	McHugh et al.	02/14/00	
		60/206,663	/	Wilson et al.	05/24/00	
		*2002/0008037		Wilson et al.	01/24/02	
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		*1,526,644		Phinney	02/17/25	
		*1,881,713		Laukel	10/11/32	
		2,256,274		Boedecker et al.	09/16/41	
		*3,664,933		Clauss	05/1972	
		*3,706,635		Kowalski	12/1972	
		*3,716,462		Jensen	02/1973	
		*3,878,066		Dettke et al.	04/1975	
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		*4,000,046		Weaver	12/28/76	
		*4,046,105		Gomez	09/06/77	
		*4,134,802		Herr	01/16/79	
		*4,304,641		Grandia et al.	12/08/81	
		*4,384,930		Eckles	05/24/83	
		*4,437,943		Beck et al.	03/20/84	
		4,451,197		Lange	05/29/84	
		4,495,453		Inaba et al.	01/22/85	
		*4,500,394		Rizzo	02/19/85	
Ad		4,566,847		Maeda et al.	01/28/86	

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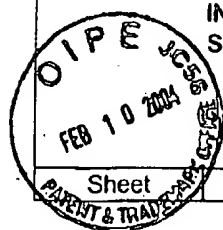
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 Group Art Unit 1753  
 Examiner Name Arun S. Phasge  
 Attorney Docket No. 29195-8159US

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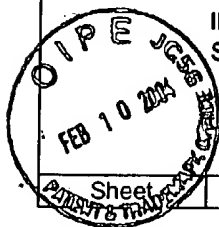
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		NUMBER	Kind Code (if known)			
AP		*4,576,689		Makkaev et al.	03/18/86	
		*4,634,503		Nogavich	01/06/87	
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		4,670,126		Messer et al.	06/02/87	
		4,760,671		Ward	08/02/88	
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		*4,902,398		Homstad	02/20/90	
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		*5,209,817		Ahmad et al.	05/11/93	
		*5,217,586		Datta et al.	06/08/93	

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PJP		5,222,310		Thompson et al.	06/29/93	
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		NUMBER	Kind Code (if known)			
AJP		*5,871,626		Crafts et al.	02/16/99	
		*5,882,498		Dubin et al.	03/16/99	
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		5,980,706		Bleck et al.	11/09/99	
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		*5,989,397		Laube et al.	11/23/99	
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		*6,027,631		Broadbent	02/22/00	
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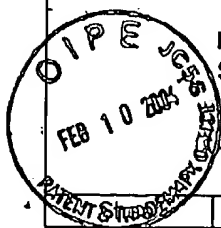
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ASD		6,234,738		Kimata et al.	05/22/01	
		*6,277,263		Chen	08/21/01	
		6,322,677		Duncan	11/27/01	
		6,481,956		Hofmeister	11/19/02	
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Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
ASD		WO	00/02808	/	Semitool, Inc.	01/20/00		
		WO	*00/61498		Semitool, Inc.	10/19/00		
		WO	*00/61837		Semitool, Inc.	10/19/00		
		WO	01/90434	/	Semitool, Inc.	11/29/01		
		WO	02/099165	/	Semitool, Inc.	12/12/02		
		WO	02/097165	/	Semitool, Inc.	12/05/02		
		WO	*02/02808		Semitool, Inc.	01/20/00		
ASD		WO	*02/045476		Semitool, Inc.	06/13/02		

**OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
ASD		*LEE, TIEN-YU TOM et al., "Application of a CFD Tool in Designing a Fountain Plating Cell for Uniform Bump Plating of Semiconductor Wafers," IEEE Transactions On Components, Packaging and Manufacturing Technology - Part B, February 1996, pp 131-137, Vol 19, No. 1, IEEE	
ASD		LOWENHEIM, FREDERICK A., "Electroplating," January 1979, 12 pgs, McGraw-Hill Book Company, USA	

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<i>AS</i>		*RITTER, G., et al., "Two-And Three-Dimensional Numerical Modeling of Copper Electroplating for Advanced ULSI Metallization," June 1999, 13 pgs, E-MRS Conference Symposium M. <i>Basic Models to Enhance Reliability</i> , Strasbourg, France	
<i>AS</i>		PCT International Search Report for PCT/US02/17840, Applicant: Semitool, Inc., March 2003, 5 pgs	

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